

Joint C4ISR Decision Support

DSC MSRR Information Brief

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Overview

- Current DSC MSRR Status
- Funding to Date
- FY01 Plans
- Thoughts about Proposed Brief to EXCIMS

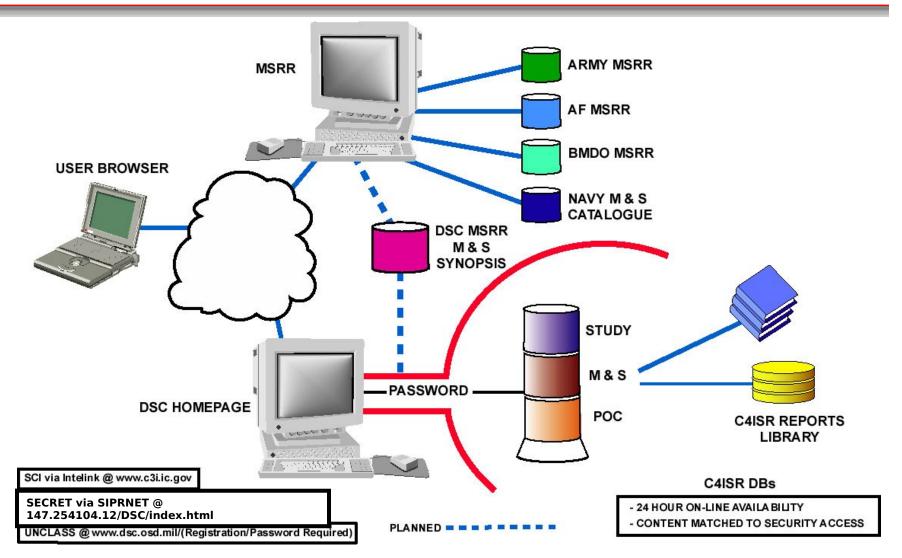


DSC Infrastructure Goals

- Reduce C4ISR study costs by consolidating C4ISR study efforts and eliminating duplication
- Reduce C4ISR modeling and simulation costs by consolidating C4ISR modeling efforts
- Reduce C4ISR analysis costs by sharing C4ISR analytical data through shared databases and libraries



Analytic Databases:The Concept





Key Features

- M&S tool characterization is C4ISR-focused, IAW the DSC charter
- Taxonomy is largely objective and quantitative

 supports several search modalities and a
 consumers report" ranking of M&S tools by
 broad C4ISR areas
- M&S records linked to studies -- provides insight into how tools have been used by whom
- Because of link to studies, database is password protected

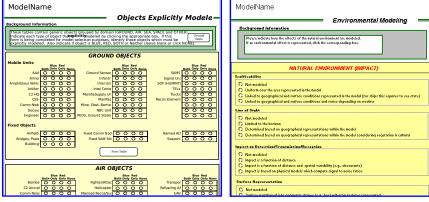
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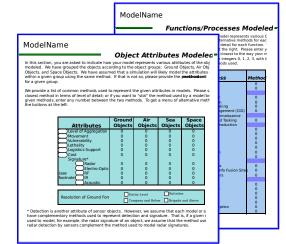
Components of the Taxonomy

General Information ModelName Model Operatio ModelName **Executing Resource** ModelName Model Management ModelName Model Characteristic ModelName Administrative Informati

Objects & Environments



Attributes, Fctns & Processessmmary



	ichness I	ndices			
Object Category	Blue	Red	Overal		
4ISR	0.00	0.00	0.00		
iround	0.00	0.00	0.00		
Úr	0.00	0.00	0.00		
ea	0.00	0.00	0.00		
ipace					
ther lyerall	0.00	0.00	0.00		
overali	0.00	0.00	0.00		
Richness Indic	es for th		nment		
Fround Environmental Elements or Environmental Elements		0.00			
ea Environmental Elements	0.00				
pace Environmental Elements		0.00			
Iverall Environmental Elements		0.00			
Command & Control	0.00 0.00				
Communications Other Functions/Processes	0.00				
Modelin Direct Attributes	g Detail I	Indices			
Methods for Ground Objects	0.00				
	0.00				
Methods for Air Objects	0.00				
			0.00		
Methods for Air Objects					
Methods for Air Objects Methods for Sea Objects Methods for Space Objects AISR Functions/Processes		0.00			
Methods for Air Objects Methods for Sea Objects Methods for Space Objects AISR Functions/Processes Command & Control ISR		0.00 0.00 0.00 0.00			
Methods for Air Objects Methods for Sea Objects Methods for Space Objects AISR Functions/Processes Command & Control		0.00 0.00 0.00			

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Current Configuration/Status

- Current Configuration
 - Recently Migrated from Mac to PC, DBMS is Filemaker Pro, CGI is Lasso
- On-line on the WWW, SIPRNET, and Intelink
- M&S Database contains detailed records on 142 M&S tools
 - 100% data completeness
 - Semi-annual or annual updates
- Studies Database contains detailed records on 319 planned, on-going, and completed studies
- An abridged version of the DSC MSRR searchable from other MSRR nodes has been created
 - Displays key C4ISR-related information on tools -- avoid redundancy with other sites
 - Accommodates keyword searches
 - Abridged version not password protected -- option to register and view detailed records

Linkage to other nodes expected in September

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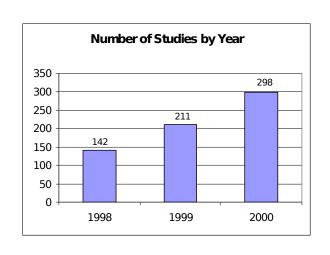


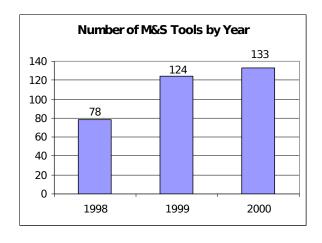
DSC MSRR Content & Tech Requirements

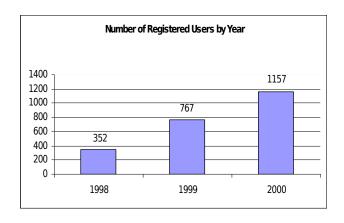
CONTENT	Assessment
Comments	
-Models	Y
Descriptive Info Only	
Simulations	Y Descriptive Info On
Algorithms	R
Tools	Y Descriptive Info On
Data	R
Metadata	G
Data Sets	R
TECH REQUIREMENTS	
Avail on SIPRNET/JWICS	G
MSRR Searchable	Y Under Development
Other Resources	G C4ISR



Studies and M&S Databases







- Over 1150 registered users
- Typically, 350 database hits per month



Funding to Date

(Breakouts estimated)

	FY97	<u>FY98</u>	<u>FY99</u>	<u>FY00</u>	<u>FY01</u>
Mgmt(PM/CM	4 \$150	\$ 150	\$100	\$100	4100
)	K	K	K	K	*100 K
Sys/DB Admir	n \$300	\$200	\$110 V	\$115 V	\$120
SW Dev	<u> </u>	K	K	K	K
	\$300	\$200	\$ 150	\$100	
Data Collection	K	K	K	K	\$110 ——K
Content Mgm	\$300	\$175	\$200	\$250	
	K	K	K	K	\$200 K
Hardware	\$200	\$175	\$260	\$265	1000
TOTALS Notes:	<u>K</u>	K	K	K	\$200] K

GovffY97F15400K 1490 (Recurring Startup costs \$10K

FY98- Consolidated M&S & Studies efforts (\$200K savings) +

less Gov STEs \$830 **\$900 \$840**

FY01-Reduction in clata collection and content ment (\$11\$\$\overline{k}\$)30
FY01- One Contractor/w one subcontractor, partially funded Contractor to the contractor of the cont

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FY01 Plans

- Complete Transition to PC
- Complete MSRR Interface
- Continue O&M
- Continue data collection/content mgmt
- Begin transition to supported DBMS
- Explore consolidating System Administration and Database maintenance efforts



Thoughts about Brief to EXCIMS

Recommend:Developing Decision Brief in response to tasking

Tasking: Consider alternatives to current system to improve MSRR Return on Investment

Proposed BOD Actions:

- Refine MSRR requirements
- Pose implementation alternatives
 - i.e. distributed operations, combined
- Weigh advantages/disadvantages of each alternative

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Points of Contact

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